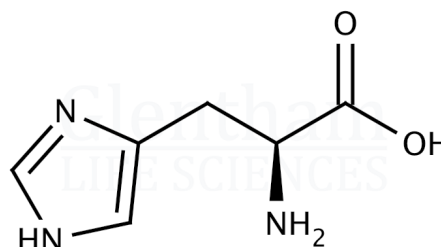


Certificate of Analysis

Product Name	L-Histidine, Ph. Eur., USP grade
Glentham Code	GM1595
CAS Number	71-00-1
EINECS	200-745-3
MDL Number	MFCD00064315
PubChem SID	310274638
Batch Number	256JSC
Molecular Weight	155.16
Molecular Formula	C ₆ H ₉ N ₃ O ₂
Storage Temp.	+20°C



Property	Specification	Batch 256JSC
Physical Description	White crystalline powder	White crystalline powder
Identification	IR	Conforms to standard
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
pH (2% in water)	7.0 - 8.5	7.7
Specific Optical Rotation	+11.4 - +12.4 °	11.8°
Ammonium (NH ₄)	≤ 0.02%	≤ 0.02%
Chloride (Cl)	≤ 0.02%	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 5ppm	≤ 5ppm
Lead (Pb)	≤ 3ppm	≤ 3ppm
Arsenic (As ₂ O ₃)	≤ 1ppm	≤ 1ppm
Mercury (Hg)	≤ 0.1ppm	≤ 0.1ppm
Cadmium (Cd)	≤ 1ppm	≤ 1ppm
Any Individual Impurity	≤ 0.2%	0.0%
Total Impurities	≤ 0.5%	0.0%
Residue on Ignition	≤ 0.1%	0.01%
Loss on Drying	≤ 0.2%	0.0%
Assay	99.0 - 101.0 % (dried basis)	100.4%
Pharmacopoeia Specification(s)	EP, USP, FCC	Conforms

Specification Version	v1.1
Manufacture Date	2021-09-14
Re-Test Date	2030-06-16

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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